Application No.: 10/761,992

Docket No.: JCLA11796

In The Claims:

Claim 1. (currently amended) A method of fabricating an imagine image sensor device,

comprising:

providing a substrate having a plurality of trenches therein;

forming a first anti-reflective layer on surfaces of the trenches;

filling an insulating layer in the trenches for forming a plurality of shallow trench

isolation regions;

forming at least one photo sensitive region within the substrate between two neighboring

isolation regions; and

forming a second anti-reflective layer at least covering the photo sensitive region.

Claim 2. (currently amended) The method of fabricating an image sensor device

of claim 1, wherein the material of the first anti-reflective layer is selected from a group

consisting of silicon nitride or silicon oxynitride.

Claim 3. (currently amended) The method of fabricating an imagine image sensor device

of claim 1, wherein the step of forming the first anti-reflective layer comprises a chemical vapor

deposition method.

Claim 4. (currently amended) The method of fabricating an imagine image sensor device

of claim 1, wherein the material of the second anti-reflective layer is selected from a group

consisting of silicon nitride or silicon oxynitride.

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Claim 5. (currently amended) The method of fabricating an image sensor device of claim 1, wherein the step of forming the second anti-reflective layer comprises a chemical vapor deposition method.

Claim 6. (currently amended) The method of fabricating an imagine image sensor device of claim 1, wherein the step of forming the photo sensitive region comprises performing an implantation process.

Claim 7. (currently amended) The method of fabricating an image image sensor device of claim 1, further comprising forming a liner layer on the surfaces of the trenches between the steps of providing the substrate and forming the first anti-reflective layer.